L Number	Hits	Search Text	DB	Time stamp
1	9106	serine adj (protease or proteinase)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/11/18 10:53
2	9630	substrate near4 (Fluorescence or Fluorescent or fret)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/11/18 10:56
3	633	(serine adj (protease or proteinase)) and (substrate near4 (Fluorescence or Fluorescent or fret))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/11/18 10:56
4	0	((serine adj (protease or proteinase)) and (substrate near4 (Fluorescence or Fluorescent or fret))) and (fluorescene adj energy and transfer)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/11/18 10:58
5	63	((serine adj (protease or proteinase)) and (substrate near4 (Fluorescence or Fluorescent or fret))) and (fluorescence adj resonance adj energy adj transfer)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/11/18 11:01
6	54	(proteinase or protease) near5 ((fluorescence adj resonance adj energy adj transfer) or fret)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/11/18 11:02
7	6	((proteinase or protease) near5 ((fluorescence adj resonance adj energy adj transfer) or fret)) and ((serine adj (protease or proteinase)) and (substrate near4 (Fluorescence or Fluorescent or fret)))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/11/18 11:02

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=> s serine (w) (protease or proteinase)
  33 FILES SEARCHED...
  62 FILES SEARCHED...
  92 FILES SEARCHED...

```
L1      144481 SERINE (W) (PROTEASE OR PROTEINASE)

=> s substrate (4a) (Fluorescence or Fluorescent or fret)
  24 FILES SEARCHED...
  49 FILES SEARCHED...
  74 FILES SEARCHED...
L2       21729 SUBSTRATE (4A) (FLUORESCENCE OR FLUORESCENT OR FRET)

=> s l1 and l2
  49 FILES SEARCHED...
L3         854 L1 AND L2

=> s (proteinase or protease) (4A) ((fluorescence adj resonance adj energy adj
transfer) or fret)
  15 FILES SEARCHED...
  31 FILES SEARCHED...
  48 FILES SEARCHED...
  61 FILES SEARCHED...
  70 FILES SEARCHED...
  87 FILES SEARCHED...
L4          89 (PROTEINASE OR PROTEASE) (4A) ((FLUORESCENCE ADJ RESONANCE ADJ
              ENERGY ADJ TRANSFER) OR FRET)

=> s l3 and l4
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SEARCH ENDED BY USER

=> s (PROTEINASE OR PROTEASE) (4A) ((FLUORESCENCE RESONANCE ENERGY TRANSFER) OR
FRET)
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  43 FILES SEARCHED...
  61 FILES SEARCHED...
  77 FILES SEARCHED...
L5          137 (PROTEINASE OR PROTEASE) (4A) ((FLUORESCENCE RESONANCE ENERGY
              TRANSFER) OR FRET)

=> s l3 and l5
  30 FILES SEARCHED...
  52 FILES SEARCHED...
  85 FILES SEARCHED...
L6            6 L3 AND L5

=> d l6 1-6 bib ab

L6   ANSWER 1 OF 6  USPATFULL on STN
AN     2003:180876  USPATFULL
TI     Proteases
IN     Yang, Junming, San Jose, CA, UNITED STATES
       Baughn, Mariah R., San Leandro, CA, UNITED STATES
       Burford, Neil, Durham, CT, UNITED STATES
       Au-Young, Janice, Brisbane, CA, UNITED STATES
       Lu, Dyung Aina M., San Jose, CA, UNITED STATES
       Reddy, Roopa, Sunnyvale, CA, UNITED STATES
       Yue, Henry, Sunnyvale, CA, UNITED STATES
       Nguyen, Daniel B., San Jose, CA, UNITED STATES
       Tang, Y. Tom, San Jose, CA, UNITED STATES
       Yao, Monique G., Mountain View, CA, UNITED STATES
       Lal, Preeti, Santa Clara, CA, UNITED STATES
PI     US 2003124706      A1   20030703
AI     US 2002-168425     A1   20020621 (10)
       WO 2000-US34811         20001219
DT     Utility
FS     APPLICATION
```

LREP Incyte Genomics Inc, Legal Department, 3160 Porter Drive, Palo Alto, CA, 94304
CLMN Number of Claims: 28
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 6542
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The invention provides human proteases (PRTS) and polynucleotides which identify and encode PRTS. The invention also provides expression vectors, host cells, antibodies, agonists, and antagonists. The invention also provides methods for diagnosing, treating, or preventing disorders associated with aberrant expression of PRTS.

L6 ANSWER 2 OF 6 USPATFULL on STN
AN 2003:140474 USPATFULL
TI Device for detecting bacterial contamination and method of use
IN Sanders, Mitchell C., West Boylston, MA, UNITED STATES
PI US 2003096315 A1 20030522
AI US 2001-848781 A1 20010503 (9)
PRAI US 2000-201405P 20000503 (60)
DT Utility
FS APPLICATION
LREP HAMILTON, BROOK, SMITH & REYNOLDS, P.C., 530 VIRGINIA ROAD, P.O. BOX 9133, CONCORD, MA, 01742-9133
CLMN Number of Claims: 9
ECL Exemplary Claim: 1
DRWN 3 Drawing Page(s)
LN.CNT 698
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A device and method for detecting the presence or absence of a prokaryotic microorganism are provided, comprising the steps of identifying a protein, such as a microbial-specific protease that characterizes the presence of a specific prokaryotic microbe and thereby provides a marker for that microbe; detecting the protease that is a marker for the presence of a specific prokaryotic microbe by cleaving a substrate when the protease is present; and signaling the presence of that protease when cleavage has occurred. More specifically, the method comprises identifying at least one outer membrane protein or a secreted protein that is unique to a particular microbial pathogen such as for example Listeria monocytogenes and that is substrate specific.

L6 ANSWER 3 OF 6 USPATFULL on STN
AN 2003:113091 USPATFULL
TI Production of cultured human mast cells and basophils for high throughput small molecule drug discovery
IN Rossi, Alexander B., San Francisco, CA, UNITED STATES
PI US 2003077824 A1 20030424
AI US 2001-53355 A1 20011108 (10)
PRAI US 2001-316723P 20010831 (60)
DT Utility
FS APPLICATION
LREP Robin M. Silva, Esq., DORSEY & WHITNEY LLP, Suite3400, Four Embarcadero Center, San Francisco, CA, 94111-4187
CLMN Number of Claims: 36
ECL Exemplary Claim: 1
DRWN 8 Drawing Page(s)
LN.CNT 2879
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Provided are methods for producing and screening proliferated populations of CD34-negative progenitor cells, mucosal mast cells, connective tissue-type mast cells and basophil cells. The methods generate uniform proliferated populations of cells. The proliferated populations contain a uniform population of a size suitable for use in high throughput screening methods, for example, screening for agents

that alter exocytosis. The invention includes screening the proliferated populations with at least one candidate bioactive agent, and evaluating the cells to detect a cell with an altered phenotype. The invention also includes isolating a candidate bioactive agent that causes the altered phenotype. Additionally, cells formed according to the described methods are also encompassed by the invention.

L6 ANSWER 4 OF 6 USPATFULL on STN
AN 2002:314644 USPATFULL
TI ASSAYS FOR APOTOSIS MODULATORS
IN ELLIOTT, KATHRYN J., SAN DIEGO, CA, UNITED STATES
KOUNNAS, MARIA Z., SAN DIEGO, CA, UNITED STATES
DYER, REBECCA J., SAN DIEGO, CA, UNITED STATES
MUNOZ, BENITO, SAN DIEGO, CA, UNITED STATES
WAGNER, STEVEN L., SAN DIEGO, CA, UNITED STATES
PI US 2002177120 A1 20021128
AI US 1999-326472 A1 19990604 (9)
DT Utility
FS APPLICATION
LREP STEPHANIE L. SEIDMAN, HELLER EHRMAN WHITE & MCAULIFFE, 4250 EXCUTIVE SQUARE, 7TH FLOOR, LA JOLLA, CA, 920379103
CLMN Number of Claims: 59
ECL Exemplary Claim: 1
DRWN 2 Drawing Page(s)
LN.CNT 2250
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Recombinant cells expressing fluorescence resonance energy transfer reporter polypeptides and cell-based assays for apoptosis; screening assays for identifying and selecting candidate compounds modulating apoptosis.

L6 ANSWER 5 OF 6 USPATFULL on STN
AN 2002:206141 USPATFULL
TI Fluorescent assay for proteolysis
IN Benkovic, Stephen J., State College, PA, UNITED STATES
Scott, Charles P., Narberth, PA, UNITED STATES
PI US 2002110834 A1 20020815
AI US 2002-71468 A1 20020208 (10)
RLI Continuation of Ser. No. US 2000-713614, filed on 15 Nov 2000, GRANTED, Pat. No. US 6346924 Continuation of Ser. No. US 1997-817445, filed on 30 Apr 1997, GRANTED, Pat. No. US 6198458
PRAI NZ 1994-264864 19941104
NZ 1995-272778 19950815
WO 1995-NZ106 19951016
US 2001-267440P 20010208 (60)
DT Utility
FS APPLICATION
LREP MCKEE, VOORHEES & SEASE, P.L.C., ATTN: PENNSYLVANIA STATE UNIVERSITY, 801 GRAND AVENUE, SUITE 3200, DES MOINES, IA, 50309-2721
CLMN Number of Claims: 13
ECL Exemplary Claim: 1
DRWN 5 Drawing Page(s)
LN.CNT 416
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The invention includes methods for assaying protease activity. According to one aspect of the present invention provides a nucleic acid construct having a sequence encoding an amino terminal portion of a fluorescent reporter fused to a sequence encoding a substrate of a protease followed by a sequence encoding a carboxyl terminal portion of a fluorescent reporter protein. The recombinant **fluorescent substrate** is then expressed in the presence of a protease. A change in quenching of **fluorescence** in the recombinant **substrate** is then detected. The change is an indication of protease activity.

L6 ANSWER 6 OF 6 WPINDEX COPYRIGHT 2003 THOMSON DERWENT on STN
AN 2001-265889 [27] WPINDEX
DNC C2001-080448
TI New **serine protease** termed protease T, useful for treating and preventing skin flaking or imbalance of desquamation.
DC B04 D16
IN ANDRADE-GORDON, P; DARROW, A L; QI, J; ANDRADE-GRODON, P; DARROW, A
PA (ORTH) ORTHO-MCNEIL PHARM INC; (ANDR-I) ANDRADE-GRODON P; (DARR-I) DARROW A; (QIJJ-I) QI J
CYC 95
PI WO 2001016293 A2 20010308 (200127)* EN 83p
RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TZ UG ZW
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AU 2000069476 A 20010326 (200137)
EP 1244780 A2 20021002 (200265) EN
R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI
US 6458564 B1 20021001 (200268)
US 2002146805 A1 20021010 (200269)
US 2002168754 A1 20021114 (200277)
ADT WO 2001016293 A2 WO 2000-US23823 20000830; AU 2000069476 A AU 2000-69476 20000830; EP 1244780 A2 EP 2000-957926 20000830, WO 2000-US23823 20000830; US 6458564 B1 US 1999-386653 19990831; US 2002146805 A1 Div ex US 1999-386653 19990831, US 2002-40655 20020107; US 2002168754 A1 Div ex US 1999-386653 19990831, US 2002-41006 20020107
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PRAI US 1999-386653 19990831; US 2002-40655 20020107; US 2002-41006 20020107
AB WO 200116293 A UPAB: 20010518
NOVELTY - A protein (I) that functions as protease T protein, is new.
DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:
(1) an isolated and purified nucleic acid molecule (II) encoding protease T, or its functional derivatives;
(2) an expression vector (III), containing a nucleic acid molecule encoding (I);
(3) a recombinant host cell (IV) containing (III);
(4) a monospecific antibody (Ab) immunologically reactive with protease T protein;
(5) expressing protease T in a recombinant host;
(6) identifying compounds (C) that modulate protease T protein activity, by combining a modulator of protease T protein activity, protease T protein and a labeled substrate, and measuring a change in the labeled substrate;
(7) a kit comprising a nucleic acid sequence of 1110 or 1130 nucleotides fully defined in the specification, or their fragments;
(8) a kit comprising a **serine protease** T protein having a sequence of 290 or 315 amino acids fully defined in the specification, or their fragments or derivatives; and
(9) a pharmaceutical composition (PC) or a non-pharmaceutical composition (NPC), comprising (IV).
ACTIVITY - Dermatological.
MECHANISM OF ACTION - T **serine protease** agonist/antagonist; (claimed). No supporting data given.
USE - (C) is useful for treating a condition mediated by protease T. PC is useful for treating an imbalance of desquamation, by topical application of PC. PC is useful as a topical skin care composition. NPC is useful as a laundry detergent, shampoo, hard surface cleaning

compositions, and dish care cleaning composition (claimed). Protease T protein is useful for treating and preventing skin flaking. NPC is also useful as skin care and hair care compositions.

ADVANTAGE - Protease T is less immunogenic to sensitive individuals and it provides efficient proteolytic activity in a non-natural environment.

Dwg.0/6

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<------User Break------>

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1449 of 8/19/03

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SV   AF179224.1
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RX   MEDLINE; 20283276.
RX   PUBMED; 10825129.
RA   Wallrapp C., Hahnel S., Muller-Pillasch F., Burghardt B., Iwamura T.,
RA   Ruthenburger M., Lerch M.M., Adler G., Gress T.M.;
RT   "A novel transmembrane serine protease (TMPRSS3) overexpressed in
RT   pancreatic cancer";
RL   Cancer Res. 60(10):2602-2606(2000).
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RA   Wallrapp C., Gress T.M.;
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RL   Submitted (20-AUG-1999) to the EMBL/GenBank/DDBJ databases.
RL   Internal Medicine I, University of Ulm, Robert-Koch-Street 8, Ulm,
RL   Baden-Wuerttemberg 89081, Germany
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SV   AF216312.1
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DT   07-FEB-2000 (Rel. 62, Last updated, Version 1)
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DE   Homo sapiens type II membrane serine protease mRNA, complete cds.
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OS   Homo sapiens (human)
OC   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia;
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RN   [1]
RP   1-2079
RA   Smeekens S.S., Lorimer D.D., Wang E., Hou J., Linnevers C.;
RT   "MT-SP2, a novel type II membrane serine protease expressed in trachea,
RT   colon, and small intestine: identification, cloning, and chromosomal
RT   localization";
RL   Unpublished.
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RN   [2]
RP   1-2079
RA   Smeekens S.S., Lorimer D.D., Wang E., Hou J., Linnevers C.;
RT   ;
RL   Submitted (14-DEC-1999) to the EMBL/GenBank/DDBJ databases.
RL   Axys Pharmaceuticals, Inc, 180 Kimball Way, South San Francisco, CA 94080,
RL   USA
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